User's Manual

CAMILEO X200

TOSHIBA

Leading Innovation

Introduction

Welcome and thank you for choosing a TOSHIBA product.

For your convenience, your TOSHIBA product is furnished with two guides:

a) a Quick Start Guide, and

b) this comprehensive PDF User’s Manual.

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Section 1
Getting to Know Your Camcorder

Overview

The camcorder with 8 Mega Pixel sensor can take H.264 videos. By way of using H.264 technology, more videos can be taken within certain amount of memory. High quality images with up to 16 mega-pixels can also be delivered smoothly. With a color LCD monitor, users can compose images and examine them easily.

The camcorder features 3” LCD touch panel which is an ideal platform for you to operate your camcorder. The menu options are accessible with your finger. With the touch panel, you can select the options directly and quickly.

The camcorder also features video recording at HD resolution of 1920x1080. You can also connect it to an HDTV via an HDMI cable, and easily playback the recorded high-definition videos on the wide screen HDTV.

Moreover, the camcorder has an advanced uploading feature. With the exclusive built-in **CAMILEO UPLOADER** application, you can upload the videos or photos captured by the camcorder to Internet more effortlessly.

ISO sensitivity and color balance can either be adjusted automatically or changed manually for varying light conditions. A 12× optical zoom helps you to control over the videos and photos you take.

The varied effect options, such as Time Lapse and Slow Motion, make recording more fun.

This camcorder integrates basic editing function to edit the video without the need for a PC. The function of **Cut and Save as New** enables immediate video editing.

The built-in memory provides you to take photos and to record videos without a memory card. The memory card slot allows users to increase the storage capacity.

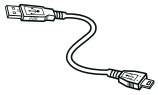
Note

- *Partial memory of the built-in memory is used for the camcorder’s Firmware code.*

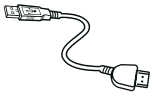
Check the Components

Unpack the package and make sure all standard accessories listed are included:

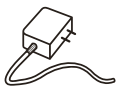
Camcorder



USB Cable



HDMI Cable



AC-Adaptor

Lithium-ion Rechargeable Battery*

Lens Cover Set (Lens cover & strap)

Warranty Leaflet

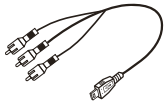
Quick Start Guide

CD-ROM (Software & User’s Manual)

Cleaning Cloth

Cloth Bag

Remote Control



AV Cable

***preinstalled in camcorder device**

Note

Please remove the lens protect film on lens before use.

Safety Instructions

1. Do not drop, puncture or disassemble the camcorder; otherwise the warranty will be voided.
2. Avoid all contact with water, and dry hands before using.
3. Do not expose the camcorder to high temperature or leave it in direct sunlight. Doing so may damage the camcorder.
4. Use the camcorder with care. Avoid pressing hard on the camcorder body.
5. For your own safety, avoid using the camcorder when there is a storm or lightning.
6. Do not use batteries of different specifications. Doing so may lead to the potential for serious damage.
7. Remove the battery during long periods between usage, as a deteriorated battery may affect the functionality of the camcorder.
8. Remove the battery if it shows signs of leaking or distortion.
9. Use only the accessories supplied by the manufacturer.
10. Keep the camcorder out of the reach of infants.
11. Risk of explosion if battery is replaced by an incorrect type.
12. Dispose of used batteries according to the instructions.

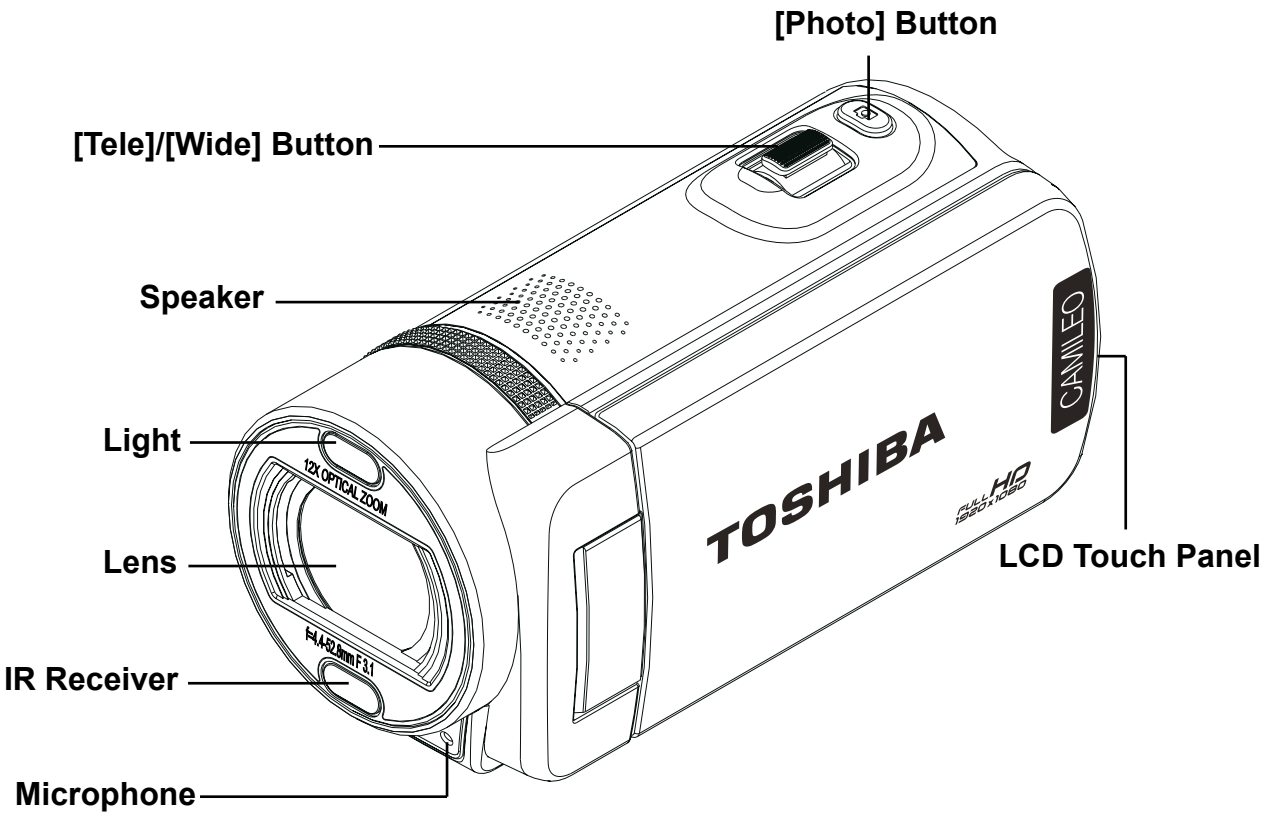
System Requirements

OS	Microsoft Windows XP, Vista, 7
Hardware	CPU Intel Pentium 4, 2.4GHz or above
	512MB system memory
	1GB hard disk space
	4x CD-ROM
	1x available USB port
	16-bit Color Display

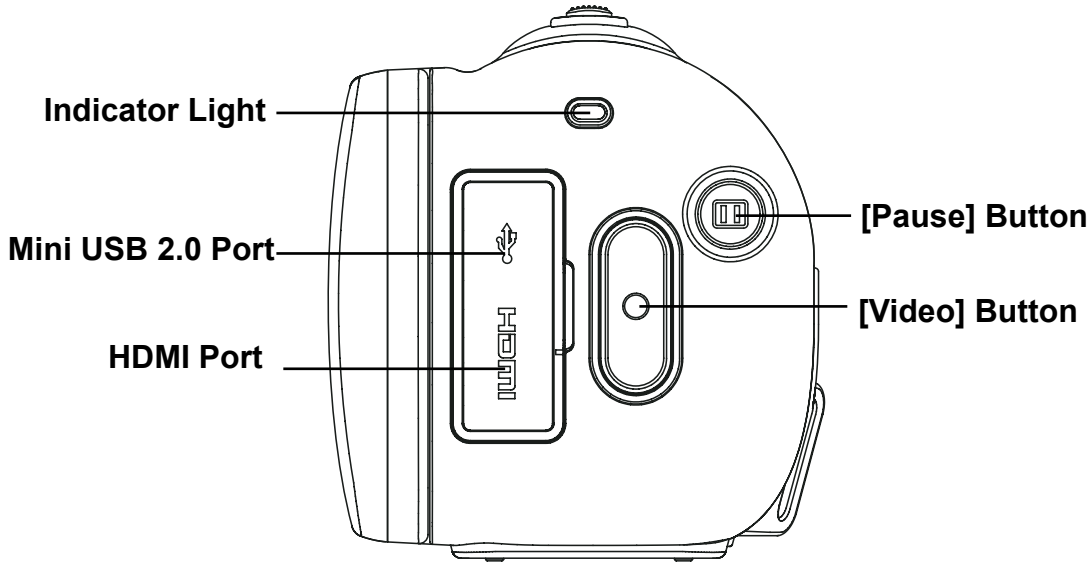
Note

The LCD screen is manufactured using extremely high-precision technology. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.

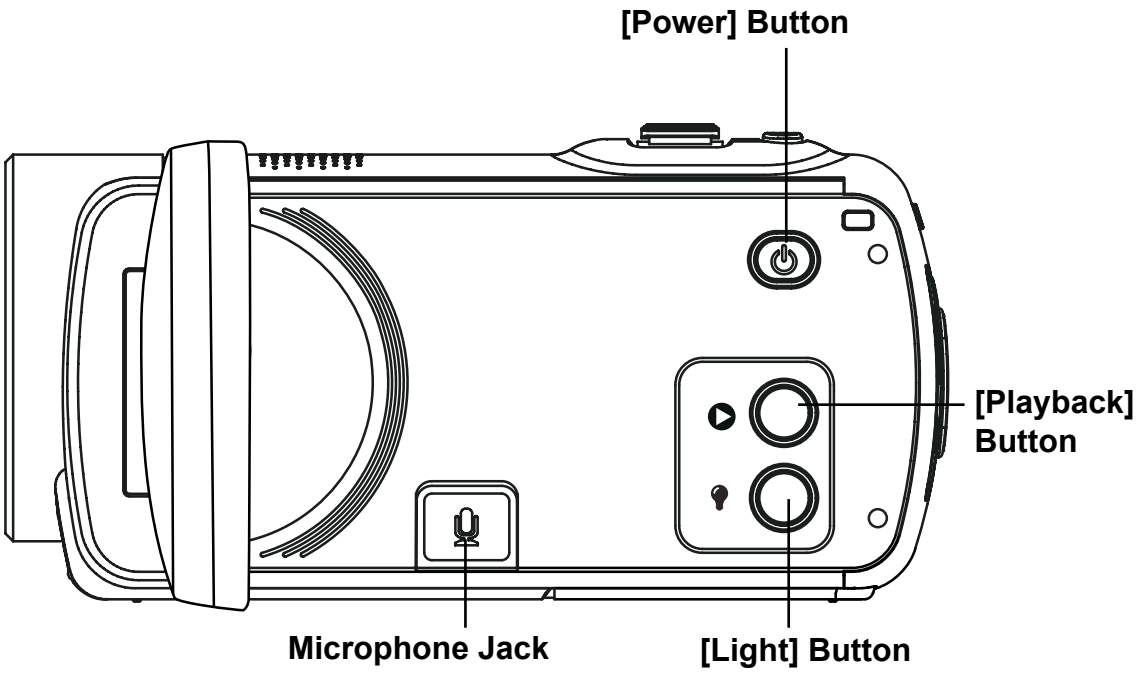
Front View



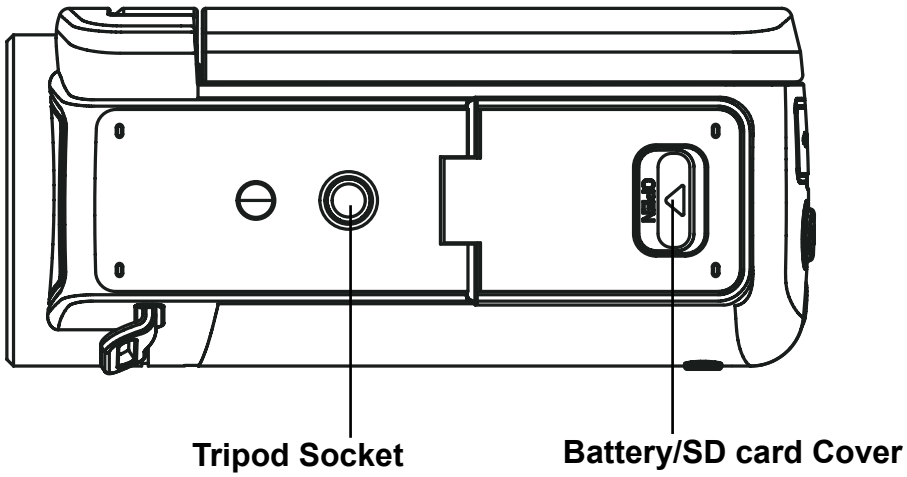
Rear View



Side View



Bottom View

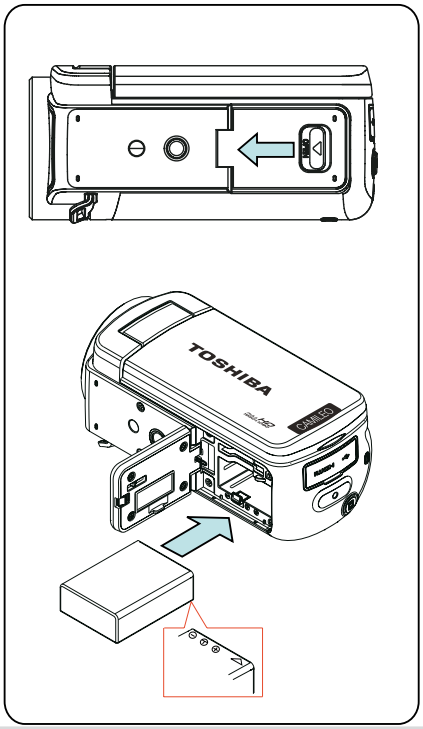


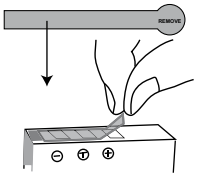
Section 2
Getting Started

Loading the Battery

The battery comes pre-installed in the camcorder, however you must remove the insulator on the battery before use.

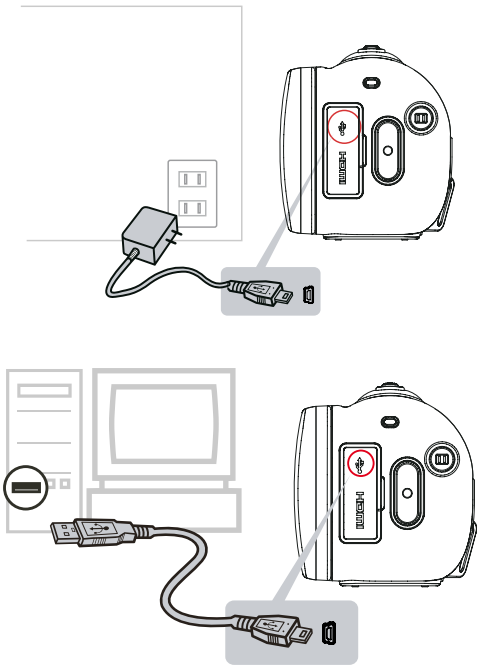
1. Slide the safety latch and open the battery cover.
2. Remove the battery from the camcorder and pull the insulator off.
3. Insert the battery according to the correct polarity marks (+ or -).
4. Close the battery cover firmly.





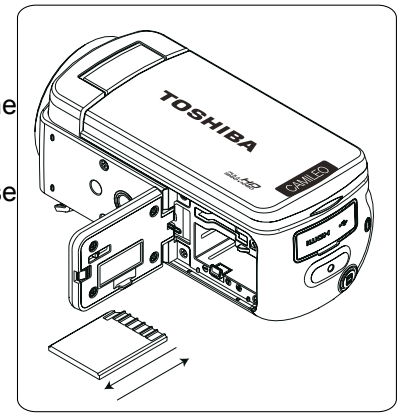
Charge your battery

You must use the supplied AC charger or the USB cable. The camcorder must be turned OFF. A blinking light indicates active charging and a solid light indicates that charging is complete.In AC charging mode, the full charging time is about 4- 5 hours and the light will turn off automatically after 3~5 minutes.(Actual charging time may vary. It depends on the battery condition.)



Inserting and Removing an SD Card (Optional)

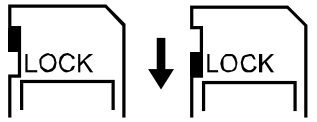
The camcorder comes with internal memory which allows you to store photos and videos. You can expand the memory capacity by using an optional SD memory card.



1. Open the SD Card cover.
2. Insert the memory card into the slot. Please refer to the figure on the right side.
3. To remove the installed SD card, press the card inwards to release it.
4. When the card pops out, gently remove it from its slot.
5. Recommended memory capacity: 1GB or above.

Note

- When a memory card is fitted, videos/photos are saved on the card rather than on the built-in memory.
- *Protecting Data on an SD Card: SD Card is read-only when it is locked. No photos or videos can be recorded when the SD card is locked. Make sure the lock is on the writeable position before recording any media.*



Turning the Camcorder On and Getting Started

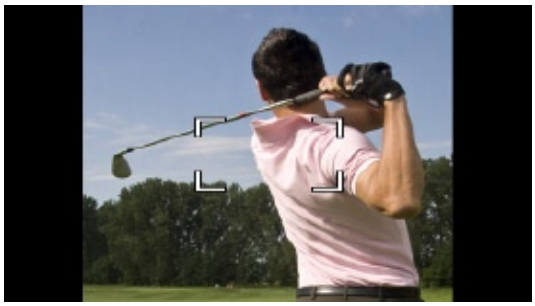
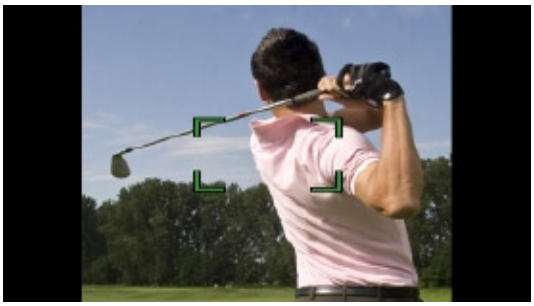
- To turn on the camcorder:
  1. Flip out the LCD panel; the camcorder will turn on automatically.
  2. Or press the [Power Button] for one second to turn it on.

- To record video: Press the [Video Button] to record video. To stop recording, press it again.

- To pause recording: Press the [Pause Button] to pause recording. To continue the recording, press it again.

- To snapshot a photo during video recording: Press the [Photo Button] to capture the image.

- To take a photo: Press the [Photo Button] halfway down until the focusing frame turns green. Then, press it fully down to take photo.

	
Focusing Frame: White	Focusing Frame: Green

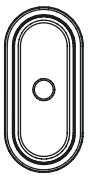
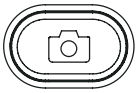
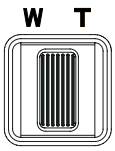
- To view stored videos and photos: Press the [Playback Button] or touch (on-screen icon) to switch to the Playback mode.

Turning the Camcorder Off

- To turn off the camcorder: You can either press [Power Button] for one second, or you can place the LCD panel back to its original position.

Section 3
Record Mode

Button Function

	**Video Button:** 1. Press to begin recording a video. 2. Press it again to stop recording.
	Pause Button: 1. Press to pause the recording. 2. Press it again to resume recording on the same file.
	**Photo Button:** 1. Press halfway down to focus, then press it fully to take the photo. 2. When recording video, press to capture the image.
	**Tele Button:** 1. Zoom In. **Wide Button** 1. Zoom out.
	Power Button: 1. Press down for one second to turn on or turn off the camcorder.
	Playback Button: 1. Toggle the Record Mode and Playback Mode.
	Light Button: 1. Press to toggle the Light settings. (LIGHT ON/ LIGHT OFF/ DIGITAL LIGHT).

LCD Monitor Information

The indicators shown below may display on LCD when videos and photos are recorded:

On-screen information icon	On-screen touchable function icon

(1)		Battery: full power
		Battery: medium power
		Battery: low power
		Battery: empty power
		DC power mode (The camcorder is turned on and plugged in the AC charger.)
(2)		Macro Position Focusing
(3)	00:03:12	Recording time
	00:03:12	Pause recording
	250	The remaining amount of photos that can be taken at the current resolution.
	321	Number of current photo
(4)		Motion Detection (Video Record Mode Only)
(5)	Scene	
		Skin
		Night

(6)	Manual White Balance	
		Daylight
		Fluorescent
		Tungsten
(7)		Zoom meter: 1×~1200× (20× advanced zoom and 60× Digital zoom) (Available for Advanced Zoom activated in **FULL HD 1080/30** video recording) 1×~900× (15× advanced zoom and 60× Digital zoom) (Available for Advanced Zoom activated in other video recording) 1×~720× (12× optical zoom and 60× Digital zoom) (Available for photo)
(8)		Slow Motion (Video Record Mode Only)
		Time Lapse (Video Record Mode Only)
		Pre-Record Mode (Video Record Mode Only)
(9)		Digital Light On
		Light On
		Light Off
(10)		20× Advanced Zoom On (only available for **FULL HD 1080/30**)
		20× Advanced Zoom Off
		15× Advanced Zoom On
		15× Advanced Zoom Off

(11)	Video Resolution	
		FULL HD 1080/30
		HD 720/60
		HD 720/30
		VGA 480/30
		WQVGA (When Slow Motion function is activated, the video resolution is WQVGA(432× 240).)
	Photo Resolution	
		High-16MP
		Standard-8MP
		Low-3MP
(12)	Video Record Mode	
		Backlight On/ Off
	Photo Record Mode	
		Self-timer On/ Off
(13)		Menu On
(14)		Playback Mode On
(15)		Photo Mode On
(16)		Video Mode On
(17)		Delete Mode On

Note

- *Tap on the screen to close the touchable function bars. Tap again to show the bars.*
- *Filter: Black & White / Classic / Negative can be previewed immediately without the indicator on the LCD screen.*
- *Stabilization, Time Lapse, and Slow Motion functions can not be used simultaneously.*
- *Stabilization and Night Mode functions can not be used simultaneously.*
- *Pre-Record, Motion Detection, Time Lapse, and Slow Motion functions can not be used simultaneously.*
- *Motion Detect, Time Lapse, Slow Motion, and Pause functions can not be used simultaneously.*
- *The camcorder does not power off automatically in DC power mode.*

Video Recording

- Press the [Video Button] to start recording. When a video is being recorded, a time indicator will display on the LCD monitor. To stop recording, press the [Video Button] again.
- To pause recording: Press the [Pause Button] to pause recording. To continue the recording, press it again.
- To snapshot a photo during video recording: Press the [Photo Button] to capture the image.
- Press the [Playback Button] or touch (on-screen icon) to view the recorded video.
- Four resolution settings are available:

Video Quality	
	FULL HD 1080/30: 1920x1080p 30
	HD 720/60: 1280x720p 60
	HD 720/30: 1280x720p 30
	VGA 480/30: 640x480p 30

Note

- *The image resolution captured during video recording is the same as the video resolution.*

Photo Capturing

- Press the [Photo Button] halfway down until the focusing frame turns green. Then, press it fully down to take photo.
- Press the [Playback Button] or touch (on-screen icon) to view the recorded video.
- Three resolution settings are available:

Image Quality	
	HIGH-16 Mega Pixels: 4608 x 3456
	STANDARD-8 Mega Pixels: 3264 x 2448
	LOW-3 Mega Pixels: 2048 x 1536

Using Digital Light or Light Function

- The setting allows you to brighten the area or to extend the brightness of the objects.

1. Press to toggle the Light settings. (LIGHT ON/ LIGHT OFF/ DIGITAL LIGHT).
   - When the Light function is activated ( ) the light will be turned on and keeps providing light.
   - When the Digital Light function is activated ( ) , the camcorder extends dynamic range for backlight and high contrast sense so that the objects will be brighter and clearer.
2. Press the [Video]/[Photo] Button to start recording or to take photo.

Note

- *To avoid the persistence of image on the screen, please turn off the Digital Light function after you used it in the dark situation.*
- *The light will be disabled automatically when battery power is low ( ).*

Using Zoom Function

- The zoom magnifies images when recording video or taking photo.

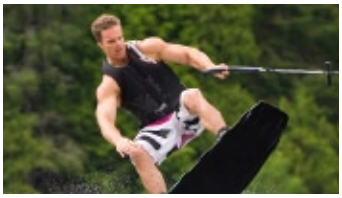
1. To zoom in/out, press the [Tele/Wide Button]. The camcorder will zoom in by optical zoom first. When the optical zoom factor is at maximum, zooming stops temporarily. When you want to zoom in beyond the optical zoom range, hold the [Tele Button] again, the digital zoom will be activated and zooming continues.
2. It can be set from 1×~720× (12× optical zoom and 60× Digital zoom)

Using Advanced Zoom Function

- In addition to the 12x optical zoom range, the advanced sensor transforms the 12x optical zoom into the higher advanced zoom. The advanced zoom obtains a larger zoom range without any deterioration of the video quality. Once the advanced zoom is activated, the viewfinder displays wider angle scene and you can record the farther subjects by zooming in.

1. When you are going to record video, touch the on screen icon to activate advanced zoom.

Available Video Quality	Advanced Zoom	Function
		The magnification is approximately 1.66 times and the lens is enhanced to be 20× advanced zoom. When recording video, press the Tele/Wide Button and it can be set from 1×~1200× (20× advanced zoom and 60× Digital zoom)
		The magnification is approximately 1.25 times and the lens is enhanced to be 15× advanced zoom. When recording video, press the Tele/Wide Button and it can be set from 1×~900× (15× advanced zoom and 60× Digital zoom)

Normal	12x Optical Zoom	Advanced Zoom
		

Note

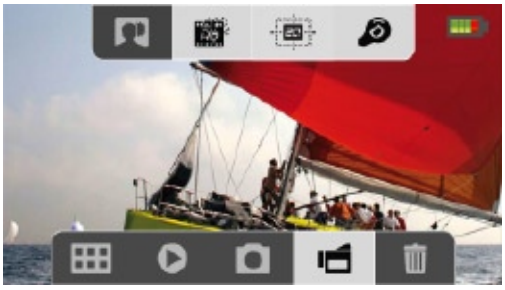
- *The advanced zoom is only available for video recording.*

Options for Menu

VIDEO SETTING	PHOTO SETTING	EFFECTS	SETUP*	DELETE
• LIGHT • RESOLUTION • STABILIZATION • MOTION DETECTION • FACE TRACKING • SLOW MOTION • PRE-RECORD • TIME LAPSE • DATE PRINTING • CONTINUOUS PLAY	• LIGHT • RESOLUTION • SELF-TIMER • SMILE DETECTION • DATE PRINTING • ISO • SLIDESHOW	• MACRO MODE • EXPOSURE MEASURE • SCENE • FILTER • WHITE BALANCE	• MENU SOUND • TV • LANGUAGE • TIME SETTING • FORMAT • DEFAULT SETTING	• DELETE VIDEO • DELETE PHOTO • SELECT & DELETE • DELETE ALL

** Please refer to Section 5 for the detailed information about [Setup].*

Operations

Operation	Screen
1. Touch on the screen. 2. The main menu will appear.	
3. The options are VIDEO SETTING, PHOTO SETTING, EFFECTS, SETUP, and DELETE. 4. Touch the desired icon twice or hold it down. 5. The option menu will pop up on the screen. 6. Touch to select the specific option you want to adjust and touch again to enter its setting menu. 7. Touch twice or hold it down to validate the setting. 8. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

VIDEO SETTING

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [VIDEO SETTING] icon twice on the screen to enter its setting menu. 3. The Video Setting menu contains 10 options--LIGHT, RESOLUTION, STABILIZATION, MOTION DETECTION, FACE TRACKING, SLOW MOTION, PRE-RECORD, TIME LAPSE, DATE PRINTING, and CONTINUOUS PLAY --for you to adjust the camcorder settings.	

LIGHT

You can select the mode to brighten the shooting area or to extend the brightness of objects.

	ON	The light will be turned ON and provides light when recording.
	OFF	The light is turned OFF.
	DIGITAL LIGHT	Extend the dynamic range for backlight and high contrast sense, so that the objects will be brighter and clearer.

Operation	Display Screen
1. In the Video Setting menu, touch the [LIGHT] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

RESOLUTION

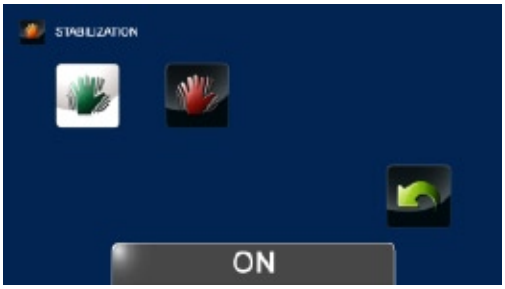
Four resolution settings are available.

	Full HD 1080/30	Record videos at 1920x1080p 30 resolution.
	HD 720/60	Record videos at 1280x720p 60 resolution.
	HD 720/30	Record videos at 1280x720p 30 resolution.
	VGA 480/30	Record videos at 640x480p 30 resolution.

Operation	Display Screen
1. In the Video Setting menu, touch the [RESOLUTION] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

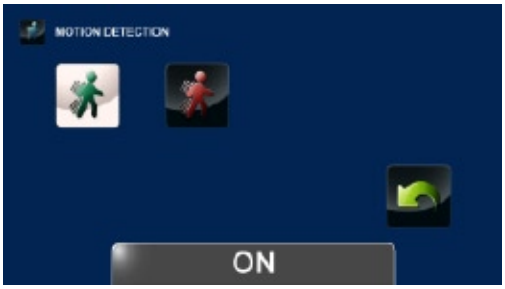
STABILIZATION

Record with an effect of reducing camcorder shake to result in more stable videos.

Operation	Display Screen
1. In the Video Setting menu, touch the [STABILIZATION] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

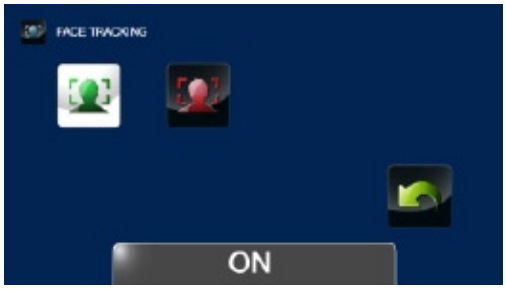
MOTION DETECTION

Record video automatically when the camcorder detects a movement.

Operation	Display Screen
1. In the Video Setting menu, touch the [MOTION DETECTION] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit. 5. The camcorder will start to record video automatically if it detects movement. It stops recording when no movement is detected.	

FACE TRACKING

The camcorder can detect human face(s) and focus on the face(s) automatically. It is wonderful for capturing portraits in backlit conditions.

Operation	Display Screen
1. In the video Setting menu, touch the [FACE TRACKING] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	
5. In Record Mode, aim the camcorder at the face(s). The face frame(s) will appear around the face.	

SLOW MOTION

Record videos with slow motion effect. When the video is played, the playback time will be longer than the actual recording time.

Operation	Display Screen
1. In the Video Setting menu, touch the [SLOW MOTION] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

Note

- *While Slow Motion function is activated, audio is not recorded and zoom is disabled.*
- *The view angle may become smaller when the Slow Motion is activated.*
- *When Slow Motion function is activated, the video resolution is WQVGA.*

PRE-RECORD

The Pre-record function ensures that you will not miss any critical recording opportunity. The camcorder records a few seconds more before the [Video] Button is pressed.

Operation	Display Screen
1. In the Video Setting menu, touch the [PRE-RECORD] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

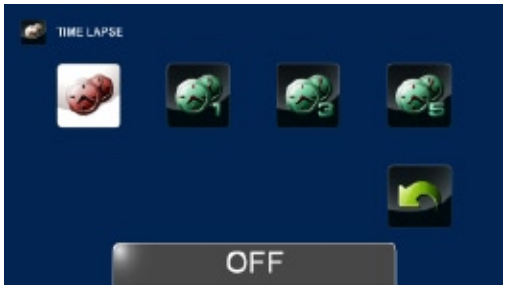
Note

- *Be sure to aim the camcorder at the subject and position it securely before the [Video Button] is pressed.*
- *Once the Pre-Record function is activated, it will be disabled when you setup any other video setting.*

TIME LAPSE

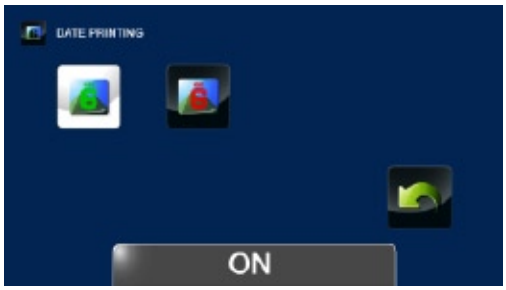
Record still images at specific intervals you can set and play them as one video file.

	OFF	Disable Time Lapse.
	1 SECOND	Record one frame per second.
	3 SECONDS	Record one frame every 3 seconds.
	5 SECONDS	Record one frame every 5 seconds.

Operation	Display Screen
1. In the Video Setting menu, touch the [TIME LAPSE] icon twice on the screen. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

DATE PRINTING

Imprint the date and time on the file.

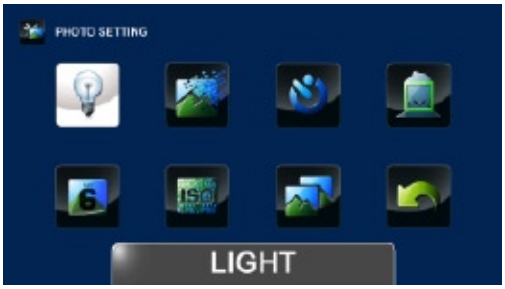
Operation	Display Screen
1. In the Video Setting menu, touch the [DATE PRINTING] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	
5. As the function is activated, the date will appear on the corner of the video.	

CONTINUOUS PLAY

Playback the video files continuously.

Operation	Display Screen
1. In the Video Setting menu, touch the [CONTINUOUS PLAY] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

PHOTO SETTING

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [PHOTO SETTING] icon twice on the screen to enter its setting menu. 3. The Photo Setting menu contains 7 options--LIGHT, RESOLUTION, SELF-TIMER, SMILE DETECTION, DATE PRINTING, ISO, and SLIDESHOW--for you to adjust the camcorder settings.	

LIGHT

You can select the mode to brighten the shooting area or to extend the brightness of objects.

	ON	The light will be turned ON and provides light when recording.
	OFF	The light is turned OFF.
	DIGITAL LIGHT	Extend the dynamic range for backlight and high contrast sense, so that the objects will be brighter and clearer.

Operation	Display Screen
1. In the Photo Setting menu, touch the [LIGHT] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

RESOLUTION

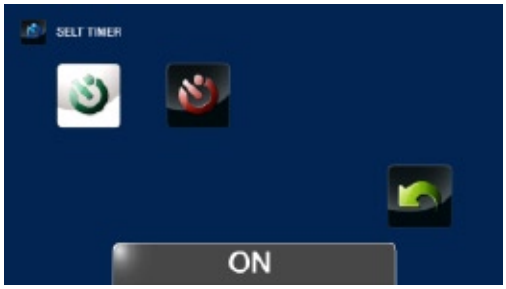
Three resolution settings are available.

	HIGH-16MP	Shoot photo at 4608 x 3456, 16 Mega Pixels quality.
	STANDARD-8MP	Shoot photo at 3264 x 2448, 8 Mega Pixels quality.
	Low-3MP	Shoot photo at 2048 x 1536, 3 Mega Pixels quality.

Operation	Display Screen
1. In the Photo Setting menu, touch the [RESOLUTION] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

SELF-TIMER

The self-timer allows you to take photo with a ten-second time delay.

Operation	Display Screen
1. In the Photo Setting menu, touch the [SELF-TIMER] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

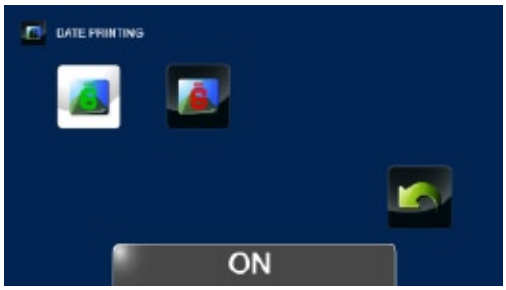
SMILE DETECTION

The camcorder capture the photo automatically when it detects a smile.

Operation	Display Screen
1. In the Photo Setting menu, touch the [SMILE DETECTION] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	
5. In Record Mode, aim the camcorder at the smiling faces. The face frames will appear around the face with smile. 6. The camcorder will focus on the subject.Then, the it will capture the photo automatically.	

DATE PRINTING

Imprint the date and time on the file.

Operation	Display Screen
1. In the photo Setting menu, touch the [DATE PRINTING] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	
5. As the function is activated, the date will appear on the corner of the photo.	

ISO

The camcorder adjusts the ISO sensitivity of its images automatically. Four manual ISO sensitivity settings are available. (800/1600/3200/6400). The larger the number, the higher the ISO sensitivity. Select the lower setting to shoot a smoother image. Select the higher setting to shoot a photo in a dark poorly lit location, or to shoot a subject moving at a high rate of speed.

	Auto	Set the ISO sensitivity automatically.
	800	ISO 800
	1600	ISO 1600
	3200	ISO 3200
	6400	ISO 6400

Operation	Display Screen
1. In the Photo Setting menu, touch the [ISO] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

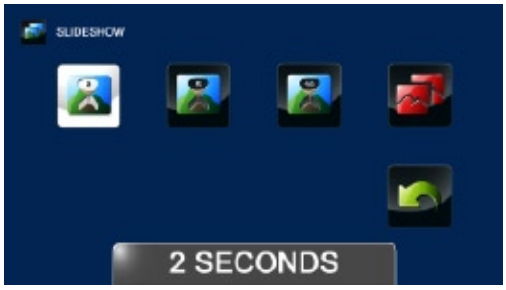
Note

The image may become grainy with a higher ISO setting.

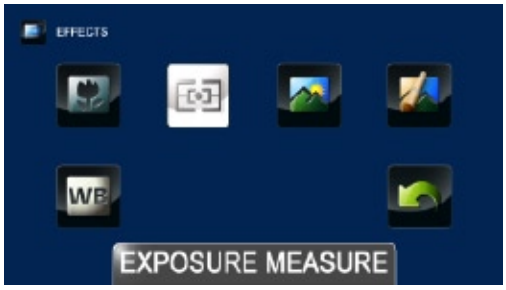
SLIDESHOW

Display photos one after another in turn.

	2 SECONDS	Display one photo every 2 seconds.
	5 SECONDS	Display one photo every 5 seconds.
	10 SECONDS	Display one photo every 10 seconds.
	OFF	Disable Slideshow.

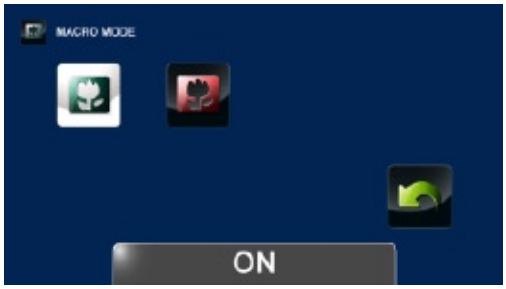
Operation	Display Screen
1. In the Photo Setting menu, touch the [SLIDESHOW] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

EFFECTS

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [EFFECTS] icon twice on the screen to enter its setting menu. 3. The Effects menu contains 5 options-- MACRO MODE, EXPOSURE MEASURE, SCENE, FILTER, and WHITE BALANCE --for you to adjust the camcorder settings.	

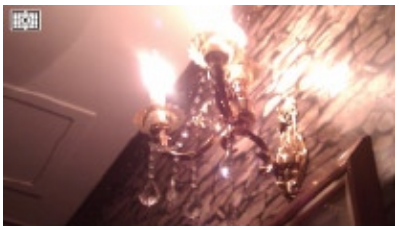
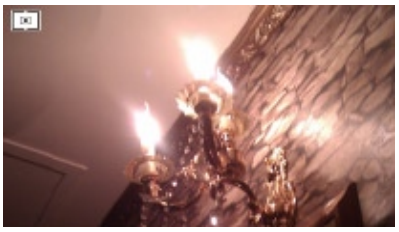
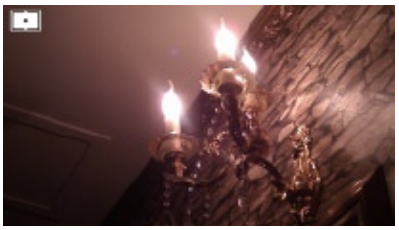
MACRO MODE

The camcorder adjusts the focus automatically. As you activate this function, the camcorder adjusts the focus with priority on close- up objects.

Operation	Display Screen
1. In the Effects menu, touch the [MACRO MODE] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

EXPOSURE MEASURE

Exposure is the amount of light that the camcorder receives from the scene. The camcorder adjusts the exposure automatically. Two manual modes are provided: CENTER and SPOT.

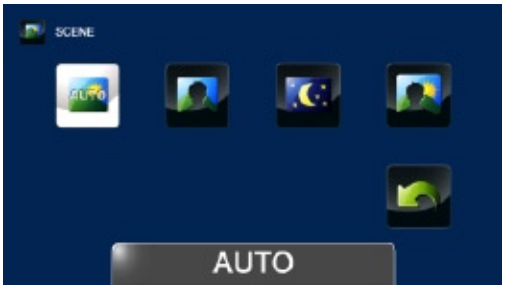
	AUTO	The camcorder meters the light in an average value for the overall scene and adjusts the exposure automatically. This setting is suitable for the normal condition.	
	CENTER	The camcorder still meters the light in an average value for the entire scene, but gives greater weight to the center. In this way, the center part will get more clear and the surrounding may become dark.	
	SPOT	The camcorder only meters the light in the middle spot of the scene. This setting is typically used in capturing the light of candle.	

Operation	Display Screen
1. In the Effects menu, touch the [EXPOSURE MEASURE] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

SCENE

You can select the mode according to the scene condition.

	AUTO	Automatic adjustment
	SKIN	Shoot with an effect that makes skin tones more natural.
	NIGHT	Use Night Mode for night scenes or low light conditions.
	BACKLIGHT	You can take shots when the bright light is behind the subject.

Operation	Display Screen
1. In the Effects menu, touch the [SCENE] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

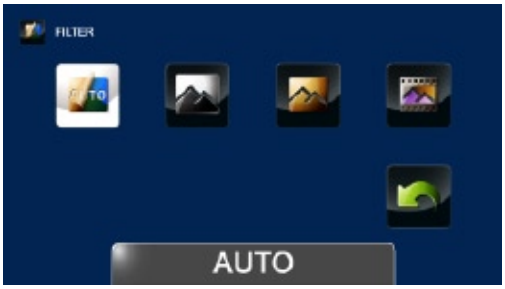
Note

To avoid blurry photos, place the camcorder on a flat, steady surface, or use a tripod when taking shots in the Night Mode.

FILTER

You can select the special filter effects on the videos or photos.

	AUTO	Shoot without any special effect on the image.
	BLACK & WHITE	The image is converted to black-and-white.
	CLASSIC	The image is converted to a sepia look.
	NEGATIVE	The image is converted as the negative of the normal.

Operation	Display Screen
1. In the Effects menu, touch the [FILTER] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

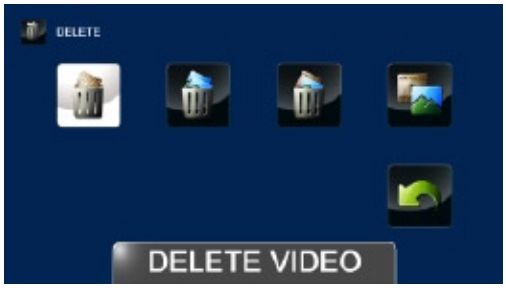
WHITE BALANCE

The camcorder adjusts the color balance of images automatically. Three manual white balance settings are available:

	AUTO	The camcorder automatically adjusts white balance.
	DAYLIGHT	Under outdoor condition.
	FLUORESCENT	Under fluorescent light condition.
	TUNGSTEN	Under tungsten light condition.

Operation	Display Screen
1. In the Effects menu, touch the [WHITE BALANCE] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

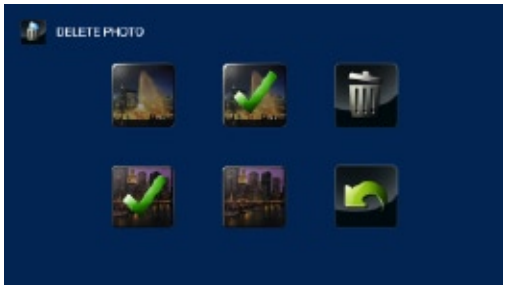
DELETE

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [DELETE] icon twice on the screen to enter delete menu. 3. The Delete menu contains 4 options-- DELETE VIDEO, DELETE PHOTO, SELECT & DELETE, and DELETE ALL --for you to manage the videos and photos in the built-in memory or the SD card.	

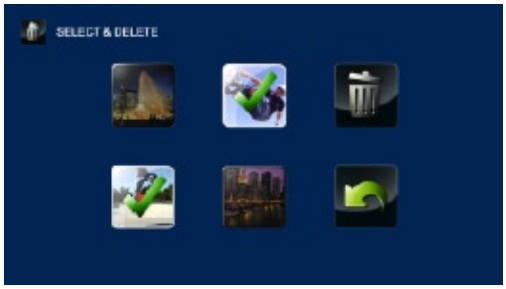
DELETE VIDEO

Operation	Display Screen
1. In the Delete menu, touch the [DELETE VIDEO] icon twice. 2. In the video thumbnail screen, touch to select the desired video(s). (The check mark(s) will be shown on the selected file(s).) 3. Touch to delete the selected video(s). 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

DELETE PHOTO

Operation	Display Screen
1. In the Delete menu, touch the [DELETE PHOTO] icon twice. 2. In the photo thumbnail screen, touch to select the desired photo(s). (The check mark(s) will be shown on the selected file(s).) 3. Touch to delete the selected photo(s). 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

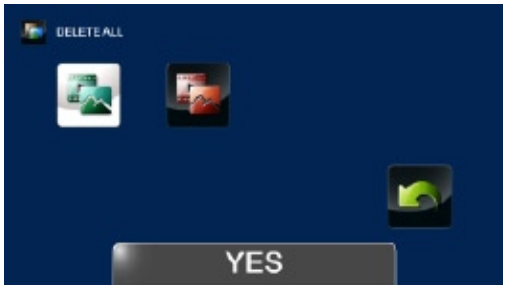
SELECT & DELETE

Operation	Display Screen
1. In the Delete menu, touch the [SELECT & DELETE] icon twice. 2. In the video & photo thumbnail screen, touch to select the desired file(s). (The check mark(s) will be shown on the selected file(s).) 3. Touch to delete the selected file(s). 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

DELETE ALL

Use this option to delete all of the videos and photos

	YES	Delete all of the videos and photos in the built-in memory (When no SD card is installed) Delete all of the videos and photos on the SD card (When an SD card is installed).
	NO	Do not delete all of the videos and photos in the built-in memory (When no SD card is installed) Do not delete all of the videos and photos on the SD card (When an SD card is installed).

Operation	Display Screen
1. In the Delete menu, touch the [DELETE ALL] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

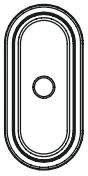
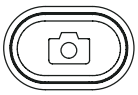
Note

- *When an SD Card has been installed, only the videos and photos stored on the card are deleted.*
- *Videos or photos cannot be deleted if the card is write-protected.*

Section 4
Playback Mode

Button Function

The Buttons have the following functions in Playback Mode.

	**Video Button:** 1. Press to go the Record Mode.
	**Photo Button:** 1. Press to go the Record Mode.
	Tele Button: 1. Volume increase. **Wide Button** 1. Volume decrease.
	Power Button: 1. Press down for one second to turn on or turn off the camcorder.
	Playback Button: 1. Toggle the Record Mode and Playback Mode.

LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:

On-screen information icon	On-screen touchable function icon

(1)		Battery: full power
		Battery: medium power
		Battery: low power
		Battery: empty power
		DC power mode
(2)	00:03:12	Playback time counter
	▲321	Number of current photo
	▽250	Total number of photos
(3)		Volume
(4)		Video playback mode
		Photo playback mode
(5)		Video Trim Mode On
(6)	Video Playback Mode	
		Indicate the function of continuous play on or off
	Photo Playback Mode	
		Indicate the function of slideshow on or off
(7)		Select & Play thumbnail screen On

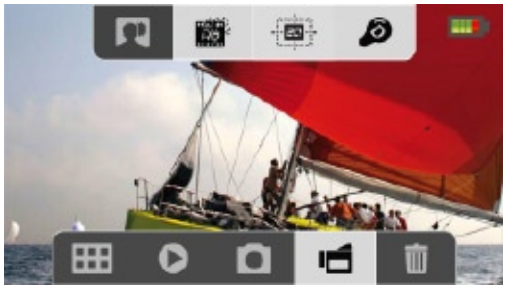
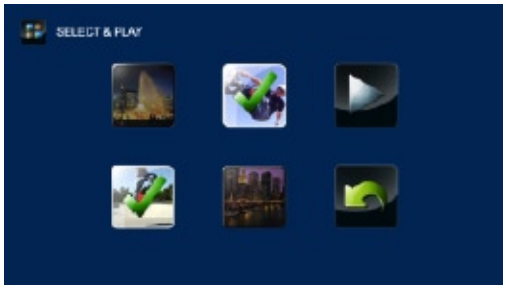
(8)		Menu On
(9)		Return to the Record Mode
(10)		Go to the previous file. Videos fast rewind
(11)		Play the file
		Pause
(12)		Go to the next file. Videos fast forward.
(13)		Delete the current file.
(13)		Stop video playing. Stop photo slideshow

Note

- *Tap on the screen to close the touchable function bars. Tap again to show the bars.*

Operations for Playback Mode

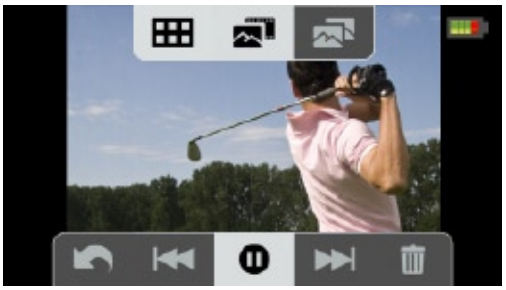
The Playback Mode is for viewing and managing videos and photos on the built-in memory or on an SD ard.

Operation	Display Screen
1. In Record Mode, press [Playback Button] or touch to switch to the Playback Mode. 2. Touch to go to the previous video/photo; Touch to go to the next video/photo.	
3. Touch to open the menu. (Please refer to section3.) 4. Touch to open the thumbnail screen of videos and photos. 5. In the thumbnail screen of videos and photos, select the file(s) you want to play, and then touch to confirm. (The check mark(s) will be shown on the selected file(s).) 6. Or touch the RETURN icon ( ) twice (hold it down) to exit.	
7. Touch to play the selected files. (Video:full length. Photo:2 seconds.)	

Video Playback

Operation	Display Screen
1. In the Video Playback Mode, touch / to play or pause the video. 2. Touch to go to the previous file; touch to go to the next file. 3. While playing videos, touch / to fast rewind/forward. 4. In the Continuous Play On Mode (is highlighted), touch to play the all video files continuously. Touch to stop playing. 5. Use Tele / Wide Buttons to adjust the volume.	

Photo Playback

Operation	Display Screen
1. In the Photo Playback Mode, touch to go to the previous file; touch to go to the next file. 2. In the Slideshow On Mode (is highlighted), touch / to play or pause the slideshow. Touch to stop slideshow.	

Delete File in Playback Mode

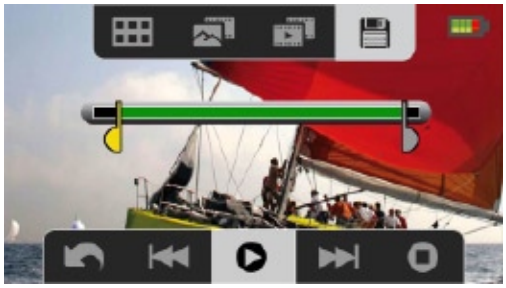
Operation	Display Screen
1. In Playback Mode, touch on the screen. 2. Touch to delete the current photo. 3. Or touch to cancel the operation and exit.	

Note

- *Videos and Photos on a written-protected memory card cannot be deleted.*

Video Trim

You can trim away the beginnings and ends of the recorded video and save it as a new video clip.

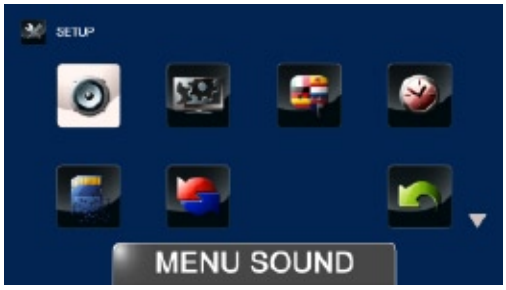
Operation	Display Screen
1. In Video playback mode, press the right-most [CUT] icon on the top.	
1. Touch the dividing icon (/) (the icon becomes yellow) on the bar to specify the beginning and the end. 2. Touch the rewind /forward (/) icon to fine-tune the dividing point. 3. You can preview the video by touching / to play or pause the video. Touch to stop playing. 4. Touch the [SAVE AS NEW] icon on the top menu bar to trim away the black portion and save the green portion as a new video file. 5. Or touch the [RETURN] icon to exit.	

Video Flow:

Specify the dividing icon (/) where the video clip is to be cut.
Portion A and C will be cut, and portion B will be saved as a new video clip.

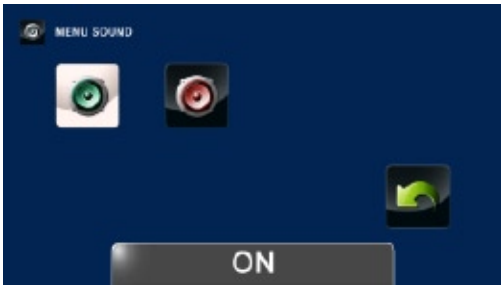
Section 5
Setting Your Camcorder

Setup Menu

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [Setup] icon twice on the screen to enter its setting menu. 3. The Setup menu contains 6 options for configuring your camcorder setup. They are MENU SOUND (operation sound), TV, LANGUAGE, TIME SETTING, FORMAT, and DEFAULT SETTING.	

MENU SOUND

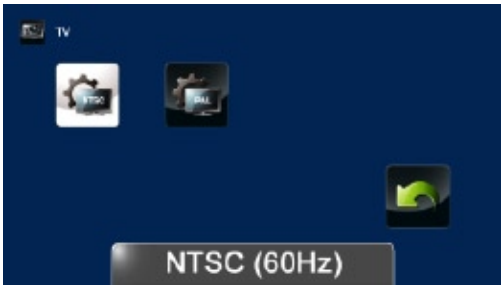
Enable or disable the keypad tone and the operation sound.

Operation	Display Screen
1. In the Setup menu, touch the [MENU SOUND] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

TV

Ensure that the appropriate TV standard of your area is selected – either NTSC or PAL. Wrong TV system setting may cause image flickers.

	NTSC(60Hz)	USA, Canada, Japan, South Korea and Taiwan, etc.
	PAL(50Hz)	UK, Europe, China, Australia, Singapore and Hong Kong, etc.

Operation	Display Screen
1. In the Setup menu, touch the [TV] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

LANGUAGE

Use this option to select the language of the user interface.

Operation	Display Screen
1. In the Setup menu, touch the [LANGUAGE] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

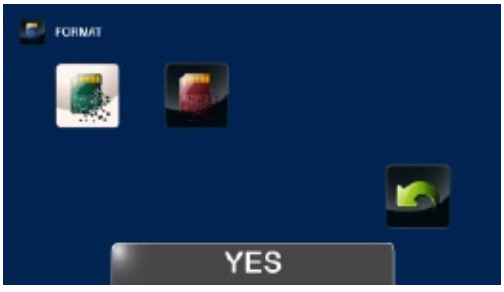
TIME SETTING

Operation	Display Screen
1. In the Setup menu, touch the [TIME SETTING] icon twice. 2. Touch Year, Month, Day, Hour, or Minute to set.. 3. Adjust the numeric value by touching the arrows. 4. Touch to validate the setting. 5. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

FORMAT

Use this option to erase all data in the built-in memory or the SD card.

	YES	Format the built-in memory (When no SD card is installed) / SD card (When an SD card is installed).
	NO	Do not format the built-in memory (When no SD card is installed) / SD card (When an SD card is installed).

Operation	Display Screen
1. In the Setup menu, touch the [FORMAT] icon twice on the screen. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

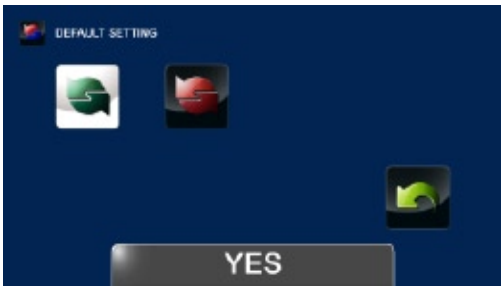
Note

All the data will be erased if the SD card is formatted. Make sure all the data are copied to your PC before formatting the SD card.

DEFAULT SETTING

Use this option to restore the default factory setting.

	YES	Restore default factory setting.
	NO	Do not restore default factory setting.

Operation	Display Screen
1. In the Setup menu, touch the [DEFAULT SETTING] icon on the screen to enter the confirmation screen. 2. Touch the [Yes] icon to execute the operation and the [No] icon to cancel the operation. 3. Or touch the RETURN icon ( ) twice (hold it down) to exit.	

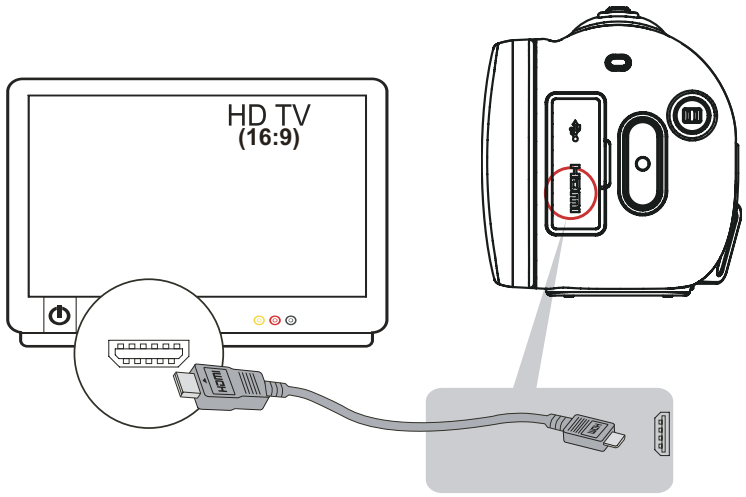
The following table indicates the camcorder's default settings

Setting	Default Factory Setting
Resolution	Full HD 1080/30 for Video Standard- 8M for Photo
Light	Off
Stabilization	On
Motion Detection	Off
Face Tracking	Off
Slow Motion	Off
Pre-Record	Off
Time Lapse	Off
Continuous Play	Off
Self-Timer	Off
Smile Detection	Off
Date Printing	Off
ISO	Auto
Slideshow	Off
Macro Mode	Off
Exposure Measure	Auto
Scene	Auto
Filter	Auto
White Balance	Auto
Menu Sound	On
TV	Depends on shipping area
Language	Depends on shipping area
Volume	Level 4

Section 6
Viewing Photos and Videos on TV

Connecting to a High-Definition 16:9(Wide) TV

1. Connect the HDMI cable to your camcorder's HDMI port.
2. Connect the other end of the cable to a HDTV.
3. Set the video input source of your TV to " HDMI."
4. The steps for viewing stored videos and photos on an HDTV are exactly the same as for viewing them on the LCD monitor.



Note

Some functions may not be accessible while the camcorder is connected to an HDTV.

The camcorder can not run thumbnail screen while the camcorder is connected to an HDTV.

Section 7
Viewing Photos and Videos on PC

Installing Bundled Software

The CD-ROM supplied with this camcorder contains 2 pieces of software.

- **ArcSoft MediaImpression** is a user-friendly application that helps you managing your media and uploading your files to the web sites easily.
- **Adobe Reader** is a popular program that you need to have installed to read the User's Manual. Many computer users will find they already have this software installed on their computer.

To install the bundled software:

1. Insert the CD-ROM into your computer's CD-ROM drive. The autorun screen appears.
2. Click "**Install Application Software"**. Follow the on-screen instructions to complete the installation.

Note

- *Detailed information can be found in the online help of all the bundled software.*
- *Install the bundled software application, ArcSoft MediaImpression, for viewing the videos correctly on a PC.*

Transferring Photos or Videos to a Computer

You can transfer photos or videos stored on your camera to a computer and send them in e-mails to friends or post them on the web sites.

To do this you should:

1. Connect the computer and camera with the supplied mini USB 2.0 cable. .
2. To access photos and videos on your SD card: Videos and photos can be found on your computer at My Computer\ SD\DCIM\100MEDIA (path will vary depending on name of SD card).
3. To access photos and videos in the camcorder's internal memory: Videos and photos can be found on your computer at My Computer\DV\DCIM\100MEDIA
4. Under this folder, you can view, delete, move, or copy any video/photo you want.

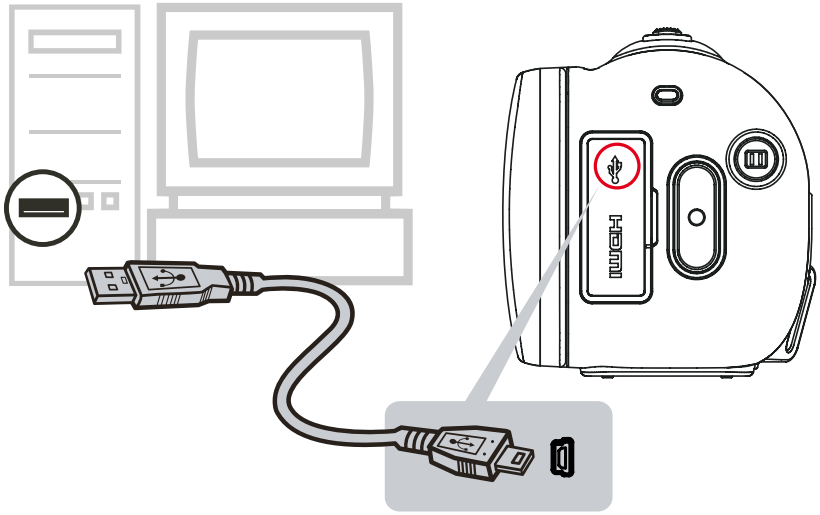
Section 8
Uploading Files to Internet

The built-in **CAMILEO Uploader** application offers you an easy way to upload your files to the social websites instantly. It helps you share them with your family and friends on the web sites. Also, the bundled software, **ArcSoft MediaImpression**, can be used to upload your files to the web sites.

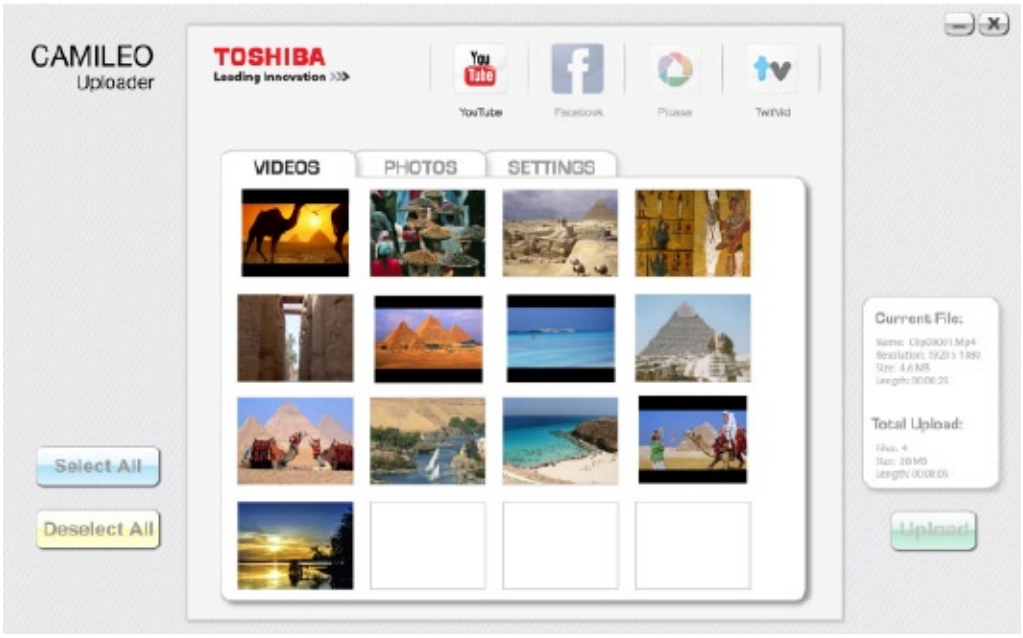
CAMILEO Uploader

To upload files to Internet:

1. Connect the camcorder to your computer by using the supplied USB cable.



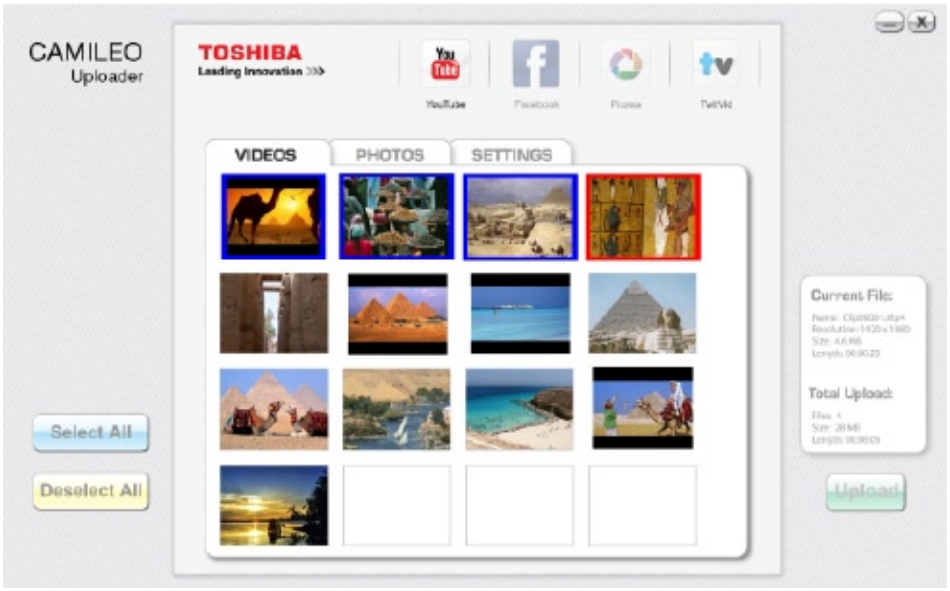
2. After making a USB connection, the AutoPlay window will appear. (It may be different based on OS recognition. If the AutoPlay window does not appear. Please click [My Computer]-->[DVAP]-->[DVAP.exe] to execute the application.)
3. The main screen appears automatically on the desktop.



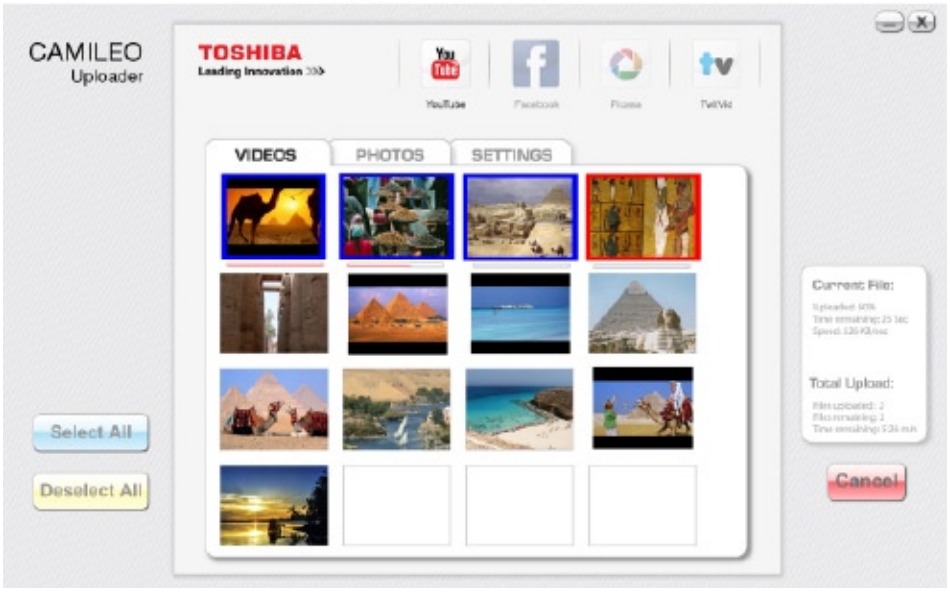
Note

- *If ArcSoft MediaImpression is not installed, you may be asked to install the H.264 Codec (ffdshow-a free software under GPL license) for viewing the videos on CAMILEO Uploader correctly.*

4. Choose the website you want to upload.
5. Click on [VIDEOS]/[PHOTOS] to go to the videos/ photos thumbnail page. Scroll the bar to change the pages.
6. Click on the files you want to upload. Click on [Select All]/[Deselect All] to select/deselect all video or photo files shown on the current page.



7. Click on [Upload] to start uploading.



To setup your account information for the website:

1. Choose the website.
2. Click on [SETTINGS] to go to the setup page.
3. Fill in your account information in the blanks. Then click on “Save”.
4. You can check [Remember Password] to save your account information and password in this CAMILEO Uploader application. (If it is unchecked, the password request will appear after clicking on [UPLOAD] on the thumbnail page.)

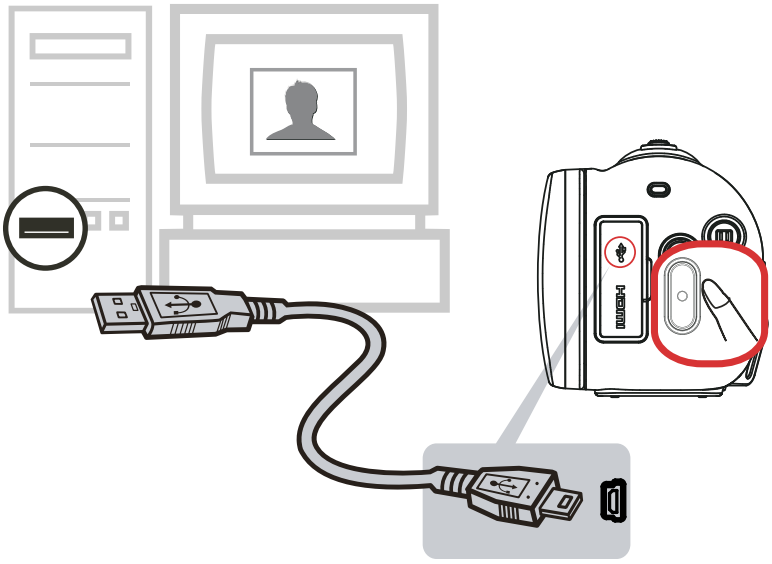
Note

- *Some social websites may not be allowed to access in certain regions.*
- *You must have internet access to upload files to the website.*

Section 9
Webcam Mode

Webcam Mode

Connect the computer and camcorder with the supplied mini USB2.0 cable. Press the [Video] Button to switch to the Webcam Mode. The Indicator Light turns BLUE. In this mode, you can implement live video conference meetings and multimedia communications.



Section 10
Specifications

Specification

Image sensor	8 Mega pixel CMOS sensor
Operation modes	Video record, Photo record, Webcam
Lens types	12× Optical zoom
Lens	Auto Focus Lens (F3.1-F4.2)
Advanced zoom	FULL HD 1080/30 : 20x HD 720/60, HD 720/30, VGA 480/30 : 15x
Digital zoom	60x
Shutter	Electronic
LCD monitor	7.6 cm (3 inches) touch LCD (16:9)
Storage media	Built-in 128MB memory (partial memory is used for firmware code); SD/SDHC/SDXC card slot support (up to 128GB)
Image resolution	16 Mega Pixels: 4608 x 3456 (Interpolated) 8 Mega Pixels: 3264x2448 3 Mega Pixels: 2048x1536
Video resolution	FULL HD 1080/30 : 1920X1080(30fps) HD 720/60 : 1280X720(60fps) HD 720/30 : 1280X720(30fps) VGA 480/30 : 640X480(30fps)
White balance	Auto/Daylight/Fluorescent/Tungsten
ISO	Auto/800/1600/3200/6400
Exposure Measure	Auto/ Center/ Spot
Self-timer	10 seconds delay
Light	Light ON/ Light OFF/Digital Light
File format	Photo: JPG Video: MP4 (H.264)
Image play	Single image/Slideshow
PC interface	Mini USB 2.0 port
TV out	HDMI
Battery	Lithium-ion rechargeable battery
Dimension	120mm (W) × 54mm (H) × 62mm (T) (4.72(W) × 2.13(H) × 2.44(T) inches)
Weight	270 g (without battery)

Section 11
Troubleshooting

Troubleshooting

1. If the LCD preview is not clear while shooting, how can the focus be adjusted?

Try to switch between Macro and Normal Mode.

2. The files on the memory card do not display smoothly when the LCD shows the "!" marking.

The "!" symbol means the SD card is too low of a speed or contains corrupted files. The way to solve this condition is to format SD card by the camcorder instead of a PC (Please refer to the detailed Format instruction in Section 5).

Or please change the SD/SDHC/SDXC card to a high speed one.

3. Why do some of my indoor photos look blurry and dark?

The camcorder extends photo exposure time under low light/ indoor condition. Keep the camcorder (and the target subject) steady for several seconds when taking photos. The shutter will sound when photos are being taken.

4. How do I charge battery?

You must use the supplied AC charger or the USB cable. The camcorder must be turned OFF. The blinking light confirms the camcorder is currently charging, and the light becomes constant after the charging is completed. In AC charging Mode, the light will turn itself off automatically after 3~5 minutes . The full charge time is about 4 to 5 hours. (Actual charging time may vary. It depends on the battery conditions.)

5. After connecting the USB cable to the computer:

1. The disk "DV" indicates the internal memory of the camcorder.
2. "Removable Disk" indicates the external memory. (If the SD card is inserted in the camcorder.)
3. The disk "DVAP" indicates the built-in CAMILEO UPLOADER application is saved to this disk. Please DO NOT format this disk or delete the application inside; otherwise, the CAMILEO UPLOADER application may not function.

Section 12
Other Information

TOSHIBA Support

Toshiba's technical support Web site

For technical support, or to stay current on the most recent software and hardware options for your CAMILEO® product and for other product information, be sure to regularly check the Toshiba Web site at

Australia: *www.mytoshiba.com.au/support*

New Zealand: *www.mytoshiba.co.nz/support*

For technical support, call the Toshiba Support Centre:

Australia: *13 30 70*

New Zealand: *0800 445 439*

Expert staff provides technical assistance during normal business hours, 5 days a week, excluding public holidays.

Be sure to have the following information available before you call:

- Product serial number and part number
- Place of purchase
- Applicable error messages or fault symptoms
- Operating system (if applicable)
- Installed third-party hardware and software (if applicable)

Warranty

Online Warranty Information

This product comes with a One (1) Year Standard Limited Warranty. The One (1) Year Standard Limited Warranty for Toshiba Computer Accessories and Electronics can be found online at

Australia: *www.mytoshiba.com.au/support*

New Zealand: *www.mytoshiba.co.nz/support*

Operating Environment Conditions

Operating temperature: 5 to 35° C

Operating humidity: 20 to 80 %

(no condensation allowed)

Additional Information

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TOSHIBA reserves the right to make technical changes. TOSHIBA assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between this product and the documentation.

About the battery pack

- Use only batteries recommended by TOSHIBA as replacements. The battery pack is lithium ion batteries, which can explode if not replaced, used, handled or disposed of properly. Dispose of the battery as required by local ordinances or regulations.
- Charge the battery pack only in an ambient temperature between 5 and 35 degrees Celsius. Otherwise, the electrolyte solution might leak, battery pack performance might deteriorate and the battery life might be shortened.
- Never install or remove the battery pack without first turning off the power and disconnecting the AC adaptor.
- Use only the product connected to an AC power source or optional TOSHIBA Battery charger to charge the battery pack. Never attempt to charge the battery pack with any other charger.
- Caution for the battery of the remote control: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

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